

**IN THE CLAIMS:**

Please amend claim 1 as follows. This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claim 1 (Currently Amended): An electro-luminescence device, comprising:

- a transparent substrate;
- a plurality of pixel areas including a plurality of scanning lines and a plurality of data lines formed on the transparent substrate;
- a plurality of pixel electrodes formed on the plurality of pixel areas;
- an electro-luminescent layer formed over the plurality of pixel electrodes;
- a metal electrode formed on the electro-luminescent layer;
- a seal cover plate for sealing the electro-luminescent layer;
- a sealant for adhering the seal cover plate to the transparent substrate;
- a heat-exhausting layer formed on the metal electrode; and
- a protective film formed between the seal cover plate and a stacked multi-layer of the electro-luminescent layer, the metal electrode and the heat-exhausting layer wherein the protective film has a multi-layer structure of at least a moisture-absorbing layer and a moisture-proof layer.

Claims 2-3 (Canceled)

Claim 4 (Original): The electro-luminescence device according to claim 1, further comprising:

a moisture-absorbing agent provided at the inner side of the seal cover plate opposed to the metal electrode to absorb moisture and oxygen from the electro-luminescent layer.

Claim 5 (Previously Presented): The electro-luminescence device according to claim 4, further comprising:

a semi-transmissive film for supporting the moisture absorbing agent to be held at the inner side of the seal cover plate.

Claim 6 (Previously Presented): The electro-luminescence device according to claim 4, wherein the moisture-absorbing agent is selected from any one of BaO, CaO, CaCO<sub>3</sub>, zeolite, silicagel and alumina.

Claim 7 (Original): The electro-luminescence device according to claim 1, wherein the heat-exhausting layer is formed from a carbon group material.

Claim 8 (Original): The electro-luminescence device according to claim 7, wherein the carbon group material is selected from any one of DLC, a-C:H, graphite, a carbon film and a carbon sheet.

Claim 9 (Original): The electro-luminescence device according to claim 1, wherein the heat-exhausting layer is formed by any one of a deposition, a coating and a taping.

Claim 10 (Previously Presented): An electro-luminescence device, comprising:

- a transparent substrate;
- a plurality of pixel areas including a plurality of scanning lines and a plurality of data lines formed on the transparent substrate;
- a plurality of pixel electrodes formed on the plurality of pixel areas;
- an electro-luminescent layer over the plurality of pixel electrodes;
- a metal electrode formed on the electro-luminescent layer;
- a seal cover plate for sealing the electro-luminescent layer;
- a sealant for adhering the seal cover plate to the transparent substrate; and
- a heat-exhausting layer formed on the seal cover plate, wherein an entire surface of the heat-exhausting film contacts the seal cover plate.

Claim 11 (Original): The electro-luminescence device according to claim 10, further comprising:

- a protective film formed on the metal electrode.

Claim 12 (Original): The electro-luminescence device according to claim 11, wherein the protective film has a single-layer structure of a moisture-absorbing layer or a moisture-proof layer, or a multi-layer structure of the moisture-absorbing layer and the moisture-proof layer.

Claim 13 (Original): The electro-luminescence device according to claim 10, further comprising:

a moisture-absorbing agent provided at the inner side of the seal cover plate opposed to the metal electrode to absorb moisture and oxygen from the electro-luminescent layer.

Claim 14 (Previously Presented): The electro-luminescence device according to claim 13, further comprising:

a semi-transmissive film for supporting the moisture absorbing agent to be held at the inner side of the seal cover plate.

Claim 15 (Previously Presented): The electro-luminescence device according to claim 13, wherein the moisture-absorbing agent is selected from any one of BaO, CaO, CaCO<sub>3</sub>, zeolite, silicagel and alumina.

Claim 16 (Original): The electro-luminescence device according to claim 10, wherein the heat-exhausting layer is formed from a carbon group material.

Claim 17 (Original): The electro-luminescence device according to claim 16, wherein the carbon group material is selected from any one of DLC, a-C:H, graphite, a carbon film and a carbon sheet.

Claim 18 (Original): The electro-luminescence device according to claim 10, wherein the heat-exhausting layer is formed by any one of a deposition, a coating and a taping.

Claim 19 (Previously Presented): An electro-luminescence device, comprising:

- a transparent substrate;
- a plurality of pixel areas including a plurality of scanning lines and a plurality of data lines formed on the transparent substrate;
- a plurality of pixel electrodes formed on the plurality of pixel areas;
- an electro-luminescent layer over the plurality of pixel electrodes;
- a metal electrode formed on the electro-luminescent layer;
- a protective film formed on the metal electrode to prevent exposure of the metal electrode; and
- a heat-exhausting layer provided on the protective film, wherein the heat-exhausting film extends to contact the transparent substrate to cover the protective layer.

Claim 20 (Original): The electro-luminescence device according to claim 19, further comprising:

- a seal cover plate provided on the heat-exhausting layer to seal the electro-luminescent layer; and
- a sealant for adhering the seal cover plate to the transparent substrate.

Claim 21 (Previously Presented): The electro-luminescence device according to claim 20, wherein said heat-exhausting layer prevents exposure of the protective film.

Claim 22 (Original): The electro-luminescence device according to claim 19, wherein the protective film has a single-layer structure of a moisture-absorbing layer or a moisture-proof layer, or a multi-layer structure of the moisture-absorbing layer and the moisture-proof layer.

Claim 23 (Original): The electro-luminescence device according to claim 19, wherein the heat-exhausting layer is formed from a carbon group material.

Claim 24 (Original): The electro-luminescence device according to claim 23, wherein the carbon group material is selected from any one of DLC, a-C:H, graphite, a carbon film and a carbon sheet.

Claim 25 (Original): The electro-luminescence device according to claim 19, wherein the heat-exhausting layer is formed by any one of a deposition, a coating and a taping.

Claim 26 (Previously Presented): An electro-luminescence device, comprising:  
a transparent substrate;  
a plurality of pixel areas including a plurality of scanning lines and a plurality of data lines formed on the transparent substrate;  
a plurality of pixel electrodes formed on the plurality of pixel areas;

an electro-luminescent layer over the plurality of pixel electrodes;  
a metal electrode formed on the electro-luminescent layer;  
a seal cover plate formed in a plane to seal the electro-luminescent layer;  
a metal thin film provided under the seal cover plate to transfer heat; and  
a sealant for adhering the seal cover plate and the metal thin film to the transparent substrate, said sealant having a space for injecting an inactive gas, wherein an entire surface of the metal thin film contacts the seal cover plate.

Claim 27 (Original): The electro-luminescence device according to claim 26, further comprising:

a moisture-absorbing agent formed at the inner side of the seal cover plate opposed to the metal electrode to absorb moisture and oxygen from the electro-luminescent layer.

Claim 28 (Previously Presented): The electro-luminescence device according to claim 27, further comprising:

a semi-transmissive film for supporting the moisture absorbing agent to be held at the inner side of the seal cover plate.

Claim 29 (Previously Presented): The electro-luminescence device according to claim 28, wherein the moisture-absorbing agent is selected from any one of BaO, CaO, CaCO<sub>3</sub>, zeolite, silicagel and alumina.

Claim 30 (Original): The electro-luminescence device according to claim 28, wherein the metal thin film is provided between the seal cover plate and the moisture-absorbing agent and adheres to the entire surface of the seal cover plate.

Claim 31 (Original): The electro-luminescence device according to claim 28, wherein the metal thin film adheres to a portion of the seal cover plate on which the moisture-absorbing agent is not formed.

Claim 32 (Original): The electro-luminescence device according to claim 28, wherein the metal thin film adheres to a portion of the seal cover plate on which the moisture-absorbing agent is not formed and the sealant is not attached.

Claim 33 (Previously Presented): The electro-luminescence device according to claim 26, wherein the sealant is made from an epoxy resin.

Claim 34 (Previously Presented): The electro-luminescence device according to claim 1, wherein the protective film extends to contact the transparent substrate to seal the heat-exhausting layer.